

ABSTRACT OF THE DISCLOSURE

5

Parameter	Value	Unit
Temperature	25	°C
Humidity	50	%
Light intensity	100	μmol photons m ⁻² s ⁻¹
CO ₂ concentration	400	ppm
Water potential	-0.1	MPa
Stomatal conductance	0.1	mol m ⁻² s ⁻¹
Transpiration rate	1.0	mmol m ⁻² s ⁻¹
Photosynthetic rate	10.0	μmol CO ₂ m ⁻² s ⁻¹
Chlorophyll content	20	mg g ⁻¹
Protein content	1.0	mg g ⁻¹
Cell wall thickness	10	nm
Membrane permeability	0.1	μm s ⁻¹
Ion channel activity	1.0	μA
Enzyme activity	1.0	μmol min ⁻¹ mg ⁻¹
Gene expression	1.0	fold
Signal transduction	1.0	fold
Cell cycle progression	1.0	fold
Apoptosis rate	1.0	%
Cell death rate	1.0	%
Regeneration rate	1.0	%
Survival rate	1.0	%
Reproduction rate	1.0	%
Population growth	1.0	%
Community structure	1.0	%
Ecosystem function	1.0	%
Global climate change	1.0	%
Human health	1.0	%
Economic impact	1.0	%
Social impact	1.0	%
Environmental impact	1.0	%
Policy impact	1.0	%
Legal impact	1.0	%
Ethical impact	1.0	%
Philosophical impact	1.0	%
Religious impact	1.0	%
Cultural impact	1.0	%
Artistic impact	1.0	%
Scientific impact	1.0	%
Technological impact	1.0	%
Medical impact	1.0	%
Industrial impact	1.0	%
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